



## ■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5"x3" compact size
- Free air convection for 110W and 160W with 20.5 CFM forced air
- With power good and fail signal output
- Built-in remote sense function for 5~15V
- No load power consumption under 0.75W by PS-ON control (G model)
- Standby 5V@0.8A with fan, @0.6A without fan (G model)
- 3 years warranty

G: With 5Vsb & no load power consumption < 0.75 W Blank: Basic function (without 5Vsb)

RPS G - 160 - 12



## **SPECIFICATION**

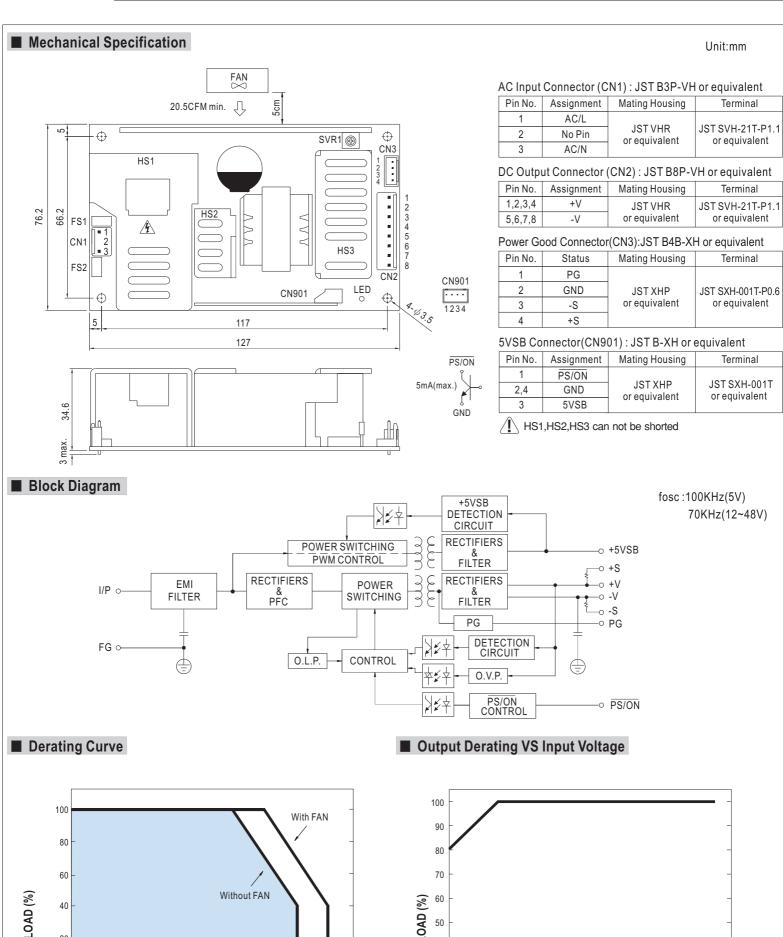
| MODEL       | ATION   | RPS -160-5  | RPS -160-12      | RPS -160-15      | RPS -160-24  | RPS -160-48      |
|-------------|---|---|------------------|------------------|--------------|------------------|
|             | DC VOLTAGE  | 5V  | 12V              | 15V              | 24V          | 48V              |
| ОИТРИТ      | RATED CURRENT (20.5CFM)   | 30A   | 12.9A            | 10.3A            | 6.5A         | 3.25A            |
|             | CURRENT RANGE (convection)  |   | 0 ~ 9.1A         | 0 ~ 7.3A         | 0 ~ 4.6A     | 0 ~ 2.3A         |
|             |   | 0 ~ 30A   | 0 ~ 12.9A        | 0 ~ 10.3A        | 0 ~ 6.5A     | 0 ~ 3.25A        |
|             | RATED POWER (convection) Note.7   |   | 112.2W           | 112.5W           | 113.4W       | 113.4W           |
|             | RATED POWER (20.5CFM) Note.8  |   | 159.8W           | 159.5W           | 161W         | 161W             |
|             | RIPPLE & NOISE (max.) Note.2  |   | 100mVp-p         | 120mVp-p         | 150mVp-p     | 250mVp-p         |
|             | VOLTAGE ADJ. RANGE  | CH1:4.5 ~ 5.5V  | CH1:10.8 ~ 13.2V | CH1:13.5 ~ 16.5V | CH1:22 ~ 27V | CH1:43.2 ~ 52.8V |
|             | VOLTAGE TOLERANCE Note.3  |   | ±3.0%            | ±3.0%            | ±2.0%        | ±2.0%            |
|             | LINE REGULATION   | ±0.5%   | ±0.5%            | ±0.5%            | ±0.5%        | ±0.5%            |
|             | LOAD REGULATION   | ±1.0%   | ±1.0%            | ±1.0%            | ±1.0%        | ±1.0%            |
|             | SETUP, RISE TIME  | 1800ms, 30ms/230VAC 3500ms, 30ms/115VAC at full load  |                  |                  |              |                  |
|             | HOLD UP TIME (Typ.)   | 16ms/230VAC/115VAC at full load   |                  |                  |              |                  |
| INPUT       | , , ,   | 90 ~ 264VAC 127 ~ 370VDC  |                  |                  |              |                  |
|             | FREQUENCY RANGE   | 90~204VAC 127~370VDC  |                  |                  |              |                  |
|             | POWER FACTOR (Typ.)   | PF>0.93/230VAC PF>0.98/115VAC at full load  |                  |                  |              |                  |
|             | EFFICIENCY (Typ.)   | 85%   | 87%              | 87%              | 87%          | 88%              |
|             |   |   |                  | 01 /0            | 01 /0        | 00 /0            |
|             | AC CURRENT (Typ.) INRUSH CURRENT (Typ.)   | 2A/115VAC 1.1A/230VAC COLD START 35A/115VAC 70A/230VAC  |                  |                  |              |                  |
|             | LEAKAGE CURRENT Note.9  |   |                  |                  |              |                  |
| PROTECTION  | LLARAGE CORRENT Note.9  |   |                  |                  |              |                  |
|             | OVERLOAD  | 105 ~ 135% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed  |                  |                  |              |                  |
|             |   | **  | 13.8 ~ 16.2V     | •                |              | FF 0 C4 0V       |
|             | OVER VOLTAGE  | 5.75 ~ 6.75V  |                  | 17.25 ~ 20.25V   | 27.6 ~ 32.4V | 55.2 ~ 64.8V     |
|             |   | Protection type: Shut down o/p voltage, re-power on to recover  |                  |                  |              |                  |
|             |   | 110°C (5V), 105°C (12V, 15V, 24V, 48V) (TSW1: detect on heatsink of power transistor)   |                  |                  |              |                  |
|             | OVER TEMPERATURE  | 95°C (5V),90°C (12V,15V,24V,48V) (TSW2: detect on heatsink of power transistor)   |                  |                  |              |                  |
|             |   | Protection type: (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down  |                  |                  |              |                  |
|             |   | Protection type: (TSW2)Shut down o/p voltage, re-power on to recover  |                  |                  |              |                  |
| FUNCTION    | 5V STANDBY (G model)  | 5VSB: 5V@0.6A without fan, 0.8A with fan 20.5CFM; tolerance ± 2%, ripple: 50mVp-p(max.)   |                  |                  |              |                  |
|             | PS-ON INPUT SIGNAL (G model)  |   |                  |                  |              |                  |
|             | POWER GOOD / POWER FAIL   |   |                  |                  |              |                  |
|             | REMOTE SENSE  | 5~15V   |                  |                  |              |                  |
| ENVIRONMENT | WORKING TEMP.   | -20 ~ +70°C (Refer to "Derating Curve")   |                  |                  |              |                  |
|             | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |                  |                  |              |                  |
|             | STORAGE TEMP., HUMIDITY   | -40 ~ +85 °C, 10 ~ 95% RH   |                  |                  |              |                  |
|             | TEMP. COEFFICIENT   | ±0.03%/°C (0~50°C)  |                  |                  |              |                  |
|             | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  |                  |                  |              |                  |
|             | SAFETY STANDARDS  | ANSI/AAMI ES60601-1, TUV EN60601-1 approved   |                  |                  |              |                  |
| FETY &      | WITHSTAND VOLTAGE   | I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC   |                  |                  |              |                  |
| IC (        | ISOLATION RESISTANCE  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°€ / 70% RH  |                  |                  |              |                  |
| te 4)       | EMC EMISSION  | Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3  |                  |                  |              |                  |
|             | EMC IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A  |                  |                  |              |                  |
| OTHERS      | MTBF  | 230.5Khrs min. MIL-HDBK-217F (25℃)  |                  |                  |              |                  |
|             | DIMENSION   | 127*76.2*34.6mm (L*W*H)   |                  |                  |              |                  |
|             | PACKING   | 0.32Kg; 36pcs/12.5Kg/0.79CUFT   |                  |                  |              |                  |
| DTE         | Ripple & noise are measure     Tolerance : includes set up     The power supply is consident EMC directives. For guidance | s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  e are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  cludes set up tolerance, line regulation and load regulation.  pply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  s. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  on http://www.meanwell.com)  \$3 can not be shorted |                  |                  |              |                  |

- 6. Derating may be needed under low input voltages. Please check the derating curve for more details. 7. The rated power includes 5Vsb @ 0.6A.
- 8. The rated power includes 5Vsb @ 0.8A.
  9. Touch current was measured from primary input to DC output.



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AMBIENT TEMPERATURE (°C)



**INPUT VOLTAGE (VAC) 60Hz** 

LOAD (%)

(HORIZONTAL)

240 264